



Jack Goldberg | Curriculum Vitae

Mr. Goldberg has over 40 years of experience in electronic and electromechanical instrumentation research and product development, with extensive involvement in audio and acoustics; signal processing; sensors, measurement and control; medical devices; software; RF and digital communications. Detailed knowledge also includes embedded hardware and software, biological and musical signal processing, vital signs measurement, infusion pumps, hearing science, and sound reproduction. He has served as an expert in intellectual property, product liability, breach of contract, and trade secret matters in cases involving medical and scientific instruments, communications systems, and a variety of other complex electronic systems. His experience includes extensive trial and deposition testimony on behalf of both plaintiffs and defendants, including at the International Trade Commission, as well as litigation support involving the Patent Trial and Appeal Board. He currently has 14 issued U.S. patents and one pending U.S. patent.

Jack Goldberg | Expertise

- Acoustics
- Analog & Digital Circuit Design
- Analog & Digital Signal Processing
- Electromagnetics
- Electromechanical Systems
- Embedded Firmware and Software
- Fluid Flow
- Handheld and Low-Power Design
- Hearing Sciences
- Infusion Systems
- Medical Instrumentation
- Microcontroller-Based Systems
- Radio Frequency Technology
- Sensor Technologies
- Vital Signs Measurement
- Litigation Support & Expert Witness

Jack Goldberg | Education

<u>Year</u>	<u>College or University</u>	<u>Degree</u>
1993	California Institute of Technology	Mgmt of Technology and Innovation (certificate)
1978	Massachusetts Institute of Technology	M.S., Electrical Engineering and Computer Science
1973	Massachusetts Institute of Technology	B.S., Electrical Engineering and Computer Science



Jack Goldberg | Professional Experience

From: 1995
To: Present
Organization: Metrionix, Inc.
Title: President & Owner
Summary: An engineering and consulting business specializing in areas of electrotechnology and focusing on sensors, control, measurement, medical instrumentation, signal processing, RF technology, communications, audio and acoustics.

- Consulting efforts have included: research and development for various medical, scientific and audio instrument manufacturers, and expert witness work related to intellectual property, product liability, manufacturing and design defects, and breach of contract.
- R&D projects have included: radio frequency communication devices for the hard of hearing; sound measurement and processing systems; miniature human implantable devices and associated sensing means; an optical system for analysis of biomaterials; a system for irrigation control which improves efficiency and conserves water; a solar-powered electrochemical apparatus for mosquito abatement; and acoustical apparatus to assist in the fitting of hearing aids.
- Design of analog and digital circuitry, signal processing and control algorithms, acoustical planning and analysis, testing and evaluation, embedded firmware development and software application development.
- Staff and associates include electrical, software, mechanical, industrial and bioengineers, technicians, and assemblers. Metrionix has laboratory space for device development, analysis and testing.

From: 2005
To: December 2012
Organization: Hearing Enhancement Group, LLC
Title: Chief Technical Officer / Owner
Summary: Business involved with the development and marketing of listening devices and other products related to hearing. Technology focused in the areas of acoustics, signal processing, and control. Responsibilities included acoustical design, hardware and software design, intellectual property strategy, management of all aspects of product development, and technical interface with overseas factory. Developed proprietary position-sensing and automatic shutoff system.



From: 1984
To: 1995
Organization: IVAC Corporation
Summary:

1992 – 1995 Vital Signs Engineering Manager

- Directed entire staff of 24 in Business Unit of hospital equipment manufacturer. Technical and managerial contributor to three Product Development programs. Managed Operations Engineering efforts for existing line of products, with emphasis on cost and quality improvements, automation, regulatory issues, and customer complaints. Achievements included:
 - Led team tasked with Product Recall effort and associated response to FDA.
 - Formulated long-term strategy for business unit and sought both technical and marketing partnerships.
 - Created systems to streamline and better control existing business practices to ensure timely introduction of new products and responsiveness to ongoing production issues.
 - Products included infrared and conventional clinical thermometers, and blood pressure measurement systems.

1984 - 1992 Principal Engineer, Research and Advanced Development Project Leader

- Performed research and developed proprietary technology in support of fluid delivery systems product line, including flow and pressure measurement subsystems and sensors for detection of air in fluid path.
 - Conceptualized new products, recommended patent strategy, and evaluated business and technical proposals from outside organizations.
 - Led teams for review of technologies for parent corporation, Eli Lilly, including flow measurement of fluids by means of thermal markers, microwave sensing of fluid composition, catheter-based RF tissue ablation, and non-invasive measurement of blood glucose.
 - Set up microelectronics prototype lab.
 - Prepared clinical protocols and regulatory submittals. Served as technical leader in development of new clinical thermometer and devised unique calibration method.



From: 1983
To: 1984
Organization: Dyn-Aura Engineering Laboratories
Title: Chief Engineer
Summary:

- Managed design, production, and test engineering functions for manufacturer of hearing aids, hearing test equipment and associated components.
- Designed analog circuitry and acoustic subassemblies, and improved assembly and test procedures.
- Supervised microelectronics assembly line, significantly increasing production yield.
- Implemented documentation standards and inventory control system.
- Conducted training seminars and product presentations, and contributed to company marketing plans.

From: 1979
To: 1983
Organization: Steinbrecher Corporation
Title: Project Leader
Summary:

- Led product development teams for manufacturer of scientific instruments. Projects included a navigation system based on GPS signals, a sonar signal processing subsystem, and a moisture measurement system employing microwave technology.
- Designed control algorithms, data acquisition subsystems, and software for data analysis and information display.
- Analyzed communications systems for various military and commercial clients.
- Wrote technical operation and service manuals for products.

From: 1978
To: 1979
Organization: Mech-El Industries
Title: Manager of Electrical Design
Summary: Managed engineering group for supplier of equipment used in semiconductor manufacturing.

From: 1973
To: 1978
Organization: Grason-Statler, Inc.
Title: Staff Engineer
Summary: Member of product development team for manufacturer of hearing test and acoustic measurement equipment.



Jack Goldberg | Litigation Support Experience

Expert Engagement:

Type of Matter: Breach of contract, fraud
Law Firm: Borgelt Powell Peterson & Frauen
Case Name: RF Technologies, Inc. v LS Research, LLC and Laird Technologies, LLC.
[No. 2:17-CV-94, Eastern District of Wisconsin]
Services Provided: Engaged as expert in case related to design and development of drive-through restaurant communications system, on behalf of defendants.
Disposition: Settled
Date: September 2018 – November 2018

Expert Engagement:

Type of Matter: Design defect, manufacturing defect, product liability
Law Firm: Brock & Goetzmann, PLLC, Dallas, TX
Case Name: Crystal Duran et al v Carefusion 303, et al
[No. 3:16-cv-01724, Northern District of Texas, Dallas Div.]
Services Provided: Engaged as expert in case related to medical infusion pump, on behalf of plaintiffs.
Disposition: Settled
Date: February 2018 – October 2018

Expert Engagement:

Type of Matter: *Inter partes* review, Patent Trial and Appeal Board
Law Firm: Robins Kapan LLP, Minneapolis, MN
Case Name: Medtronic v Boston Scientific
Services Provided: Preparation for filing *inter partes* review challenges regarding patents related to spinal neurostimulation technology, on behalf of petitioner.
Disposition: Case transferred to alternative expert
Date: April 2017 – May 2017

Expert Engagement:

Type of Matter: Patent infringement, International Trade Commission
Law Firm: Procopio, Cory, Hargreaves & Savitch, San Diego, CA
Case Name: Neology, Inc. v Kapsch Trafficcom IVHS Inc., Star Systems Int'l Ltd., et al
[No. 337-TA-979, International Trade Commission]
Services Provided: Engaged as expert in patent infringement related to radio frequency identification devices, on behalf of plaintiff and patent holder.
Deposed: Aug 1, 2016; Aug 2, 2016
Hearing Testimony: Sep 14, 2016; Sep 15, 2016, Sep 21, 2016, Sep 22, 2016
Disposition: Finding of no violation of Section 337
Date: December 2015 – June 2017



Expert Engagement:

Type of Matter: Patent infringement
Law Firm: Knobbe Martens Olson & Bear, Irvine, CA
Case Name: Masimo v Philips Electronics and Philips Medizin Systeme Boblingen GMBH
[No. 09-80; District of Delaware]
Services Provided: Engaged as expert in patent infringement related to medical instrument design;
on behalf of plaintiff and patent holder. Technology involves pulse oximetry.
Disposition: Settled
Date: January 2010 – November 2016

Expert Engagement:

Type of Matter: *Inter partes* review, Patent Trial and Appeal Board
Law Firm: Procopio, Cory, Hargreaves & Savitch, San Diego, CA
Case Name: Kapsch Trafficcom IVHS Inc., et al v Neology, Inc.
[IPR2015-0814, IPR2015-0818, IPR2015-0819]
Services Provided: Defense against *inter partes* review regarding three patents related to radio
frequency identification devices, on behalf of patent holder.
Deposed: Feb 10, 2016; Feb 16, 2016
Disposition: Project completed
Date: February 2015 –September 2016

Expert Engagement:

Type of Matter: *Inter partes* review, Patent Trial and Appeal Board
Law Firm: Sterne, Kessler, Goldstein & Fox, Washington, DC
Case Name: Hearing Instrument Manufacturers Patent Partnership v AT&T
Services Provided: Preparation of potential *inter partes* review filings related to hearing aids and
telephone/wireless communications technologies, on behalf of petitioner.
Disposition: Settled
Date: February 2015 – May 2016

Expert Engagement:

Type of Matter: Patent infringement
Law Firm: Procopio, Cory, Hargreaves & Savitch, San Diego, CA
Case Name: Neology, Inc. v Kapsch Trafficcom IVHS Inc., Star Systems Int'l Ltd., et al
[No. 13-2052; District of DE]
Services Provided: Engaged as expert in patent infringement related to radio frequency
identification devices, on behalf of plaintiff and patent holder.
Disposition: Case stayed
Date: February 2014 –January 2016



Expert Engagement:

Type of Matter: Patent infringement
Law Firm: Knobbe Martens
Case Name: Dane Technologies, Inc. v Gatekeeper Systems, Inc.
[No. 12-cv-2730, District of Minnesota]
Services Provided: Engaged as expert in patent infringement related to remotely-controllable electric-powered vehicles, on behalf of defendant accused of infringement.
Deposed: Apr 8, 2015; Apr 9, 2015
Disposition: Settled
Date: January 2014 – January 2016

Expert Engagement:

Type of Matter: Patent infringement
Law Firm: K&L Gates LLP, Chicago, IL
Case Name: Baxter International, Inc. v Fresenius Medical Care
[No. 12-cv-06890; Northern District of IL, Eastern Division]
Services Provided: Engaged as expert in patent infringement related to medical instrument design, on behalf of plaintiff and patent holder. Technology involves dialysis.
Disposition: Settled
Date: October 2012 – April 2015

Expert Engagement:

Type of Matter: Patent infringement
Law Firm: Brown Wegner McNamara
Case Name: Gatekeeper Systems, Inc. v Carttronics
[No. 13-cv-2531, Southern District of California]
Services Provided: Engaged as expert in patent infringement related to systems to prevent theft of shopping carts, on behalf of plaintiff and patent holder and on behalf of counter-defendant accused of infringement.
Disposition: Settled
Date: May 2014 – July 2014

Expert Engagement:

Type of Matter: Patent infringement
Law Firm: Parsons, Behle and Latimer
Case Name: Exergen Corp. v Thermomedics, Inc. and Sonomedics Intl
[No. 13-cv-11243, District of Massachusetts]
Services Provided: Engaged as expert in patent infringement related to medical forehead thermometer design, on behalf of defendant accused of infringement.
Disposition: Case transferred to a different law firm
Date: December 2013 – July 2014



Expert Engagement:

Type of Matter: Patent infringement
Law Firm: Brinks Hofer Gilson & Lione, Chicago, IL
Case Name: Northgate Technologies, Inc. v. Stryker Corporation and World Of Medicine
[No. 12-cv-7032, Northern District of IL, Eastern Division]
Services Provided: Engaged as expert in patent infringement related to medical instrument design
involving laparoscopic insufflation, on behalf of plaintiff and patent holder.
Deposed: May 6, 2014
Disposition: Settled
Date: April 2013 – May 2014

Expert Engagement:

Type of Matter: Breach of contract and intellectual property infringement
Law Firm: Ogletree, Deakins, Nash, Smoak & Stewart, Los Angeles, CA
Case Name: Mortgage Industry Solutions, Inc. v. Collabera, Inc.
[No. 2:11-CV-4008, Central District of CA]
Services Provided: Engaged as expert in case related to mortgage-location software, on behalf of
defendant.
Disposition: Settled
Date: April 2012 – September 2013

Expert Engagement:

Type of Matter: Patent infringement
Law Firm: Knobbe Martens Olson & Bear, Irvine, CA
Case Name: DatCard Systems, Inc. v Pacsgear, Inc.
[No. SACV 10-1288; Central District of CA, Southern Div.]
Services Provided: Engaged as expert in patent infringement related to medical informatics, on
behalf of plaintiff and patent holder.
Deposed: Dec 14, 2011
Disposition: Final judgement in favor of defendant
Date: September 2011 – June 2013

Expert Engagement:

Type of Matter: Patent infringement, International Trade Commission
Law Firm: Procopio, Cory, Hargreaves & Savitch, San Diego, CA
Case Name: Neology, Inc. v Federal Signal Corp, et al
[No. 337-TA-875, International Trade Commission]
Services Provided: Engaged as expert in patent infringement related to radio frequency
identification devices, on behalf of plaintiff and patent holder.
Disposition: Settled
Date: February 2013 – May 2013



Expert Engagement:

Type of Matter: Patent infringement
Law Firm: Procopio, Cory, Hargreaves & Savitch, San Diego, CA
Case Name: Neology, Inc. v Federal Signal Corp, et al
[No. 11-672; District of Delaware]
Services Provided: Engaged as expert in patent infringement related to radio frequency identification devices, on behalf of plaintiff and patent holder.
Deposed: Apr 20, 2012
Hearing Testimony: May 1, 2012.
Disposition: Settled
Date: October 2011 – February 2013

Expert Engagement:

Type of Matter: Patent infringement
Law Firm: Knobbe Martens Olson & Bear, Irvine, CA
Case Name: SIPCO LLC v SmartLabs Inc, et al
[No. 6:11-cv-00048; Eastern District of TX, Tyler Division]
Services Provided: Engaged as expert in patent infringement related to monitoring and controlling of remote devices, on behalf of defendant accused of infringement.
Disposition: Settled
Date: September 2012 – February 2013

Expert Engagement:

Type of Matter: Patent infringement
Law Firm: Olson & Cepuritis, Ltd; Chicago, IL
Case Name: Medisim Ltd v BestMed, LLC
[No. 10-CV-2463; Southern District of New York]
Services Provided: Engaged as expert in patent infringement related to medical thermometer design, on behalf of defendant accused of infringement.
Trial Testimony: Feb 6, 2013; Feb 7, 2013
Disposition: Jury verdict in favor of plaintiff subsequently overturned by court.
Date: March 2011 – February 2013

Expert Engagement:

Type of Matter: Patent infringement
Law Firm: Nixon Peabody, LLP; Palo Alto, CA
Case Name: HID Global Corp, et al. v Farpointe Data, Inc., et al.
[No. SACV 10-01954; Central District of California]
Services Provided: Engaged as expert in patent infringement related to radio frequency identification devices, on behalf of defendant accused of infringement.
Deposed: Sep 23, 2011
Disposition: Settled
Date: July 2011 – August 2012



Expert Engagement:

Type of Matter: Patent infringement, International Trade Commission
Law Firm: Quinn Emanuel Urquhart & Sullivan, New York, NY
Case Name: Apple Inc. v Samsung Electronics Co., Ltd., et al.
[No. 337-TA-796; International Trade Commission]
Services Provided: Engaged as expert in patent infringement related to audio and communication devices, on behalf of defendant accused of infringement.
Deposed: Oct 20, 2011
Disposition: Project complete
Date: September 2011 – July 2012

Expert Engagement:

Type of Matter: Breach of contract, misappropriation of trade secrets.
Law Firm: Holme Roberts & Owen, Denver, CO
Case Name: SA Neurelec v. Otologics et al
[No. 2008CV10601; District Court, City and County of Denver, Colorado]
Services Provided: Engaged as expert in case related to cochlear implant development, on behalf of plaintiff.
Deposed: Nov 23, 2010
Trial Testimony: Feb 9, 2011; Feb 10, 2011
Disposition: Jury verdict in favor of plaintiff
Date: June 2010 – February 2011

Expert Engagement:

Type of Matter: Patent infringement, technology review
Law Firm: Law Offices of S.J. Christine Yang, Fountain Valley, CA
Case Name: --
Services Provided: Review and prior art search related to infrared thermometry patents.
Disposition: Project complete
Date: March 2010 – August 2010

Expert Engagement:

Type of Matter: Breach of contract
Law Firm: Carstens & Cahoon, LLP, Dallas, TX
Case Name: Jin Song v. PIL, LLC and Publications International, Ltd.
[No. 08-CV-2807; Northern District of Illinois]
Services Provided: Engaged as expert in case regarding royalty agreement on behalf of plaintiff.
Technology involves electromagnetic sensing.
Disposition: Settled
Date: November 2009 – June 2010



Expert Engagement:

Type of Matter: Product liability
Law Firm: Law Offices of Randolph M. Even & Assoc, Woodland Hills, CA
Case Name: Vega, et al v. Verizon, Selander, et al
[No. 1341106, Superior Court of California, County of Santa Barbara]
Services Provided: Engaged as expert in case related to operation of infusion pump worn by diabetic driver involved in an automobile accident on behalf of defendant.
Disposition: Case transferred to different law firm
Date: May 2010

Expert Engagement:

Type of Matter: Patent infringement
Law Firm: Foley Hoag LLP, Boston, MA
Case Name: Analog Devices v. Hittite Microwave
[No. 1:2008cv11626; District of Massachusetts]
Services Provided: Engaged as expert in patent infringement related to analog circuit design and power detection on behalf of defendant accused of infringement.
Disposition: Settled
Date: November 2008 – April 2010

Expert Engagement:

Type of Matter: False advertising, unfair competition
Law Firm: Law Offices of Michael Kinney, Bonsall, CA
Case Name: Codonics, Inc. v. DatCard Systems
[No. 1:08-cv-1885; Northern District of Ohio]
Services Provided: Engaged as expert in case related to hospital information system on behalf of defendant.
Deposed: Dec 29, 2009
Disposition: Settled
Date: April 2009 – January 2010

Expert Engagement:

Type of Matter: Patent infringement
Law Firm: Knobbe Martens Olson & Bear, Irvine, CA
Case Name: DatCard Systems, Inc. v. Codonics, Inc.
[No. SA CV 08-00063, Central District of California, Southern Div.]
Services Provided: Engaged as expert in patent infringement related to medical informatics on behalf of plaintiff and patent holder.
Disposition: Stayed pending patent re-examination
Date: December 2008 – October 2009



Expert Engagement:

Type of Matter: Patent infringement
Law Firm: Howrey, LLP, San Francisco, CA
Case Name: AuthenTec, Inc. v. Atrua Technologies, Inc.
[No. 3:08-CV-1423, Northern District of California, San Francisco Div.]
Services Provided: Engaged as expert in patent infringement related to biometric sensing, on behalf of plaintiff and patent holder.
Technology Tutorial: Apr 16, 2009.
Disposition: Settled
Date: November 2008 – June 2009

Expert Engagement:

Type of Matter: Patent infringement
Law Firm: Baker & McKenzie, San Diego, CA
Case Name: Single Chip Systems and Neology v. Transcore and Intermec
[No. 04 CV 1517; Southern District of California]
Services Provided: Engaged as expert in patent infringement related to radio frequency communications devices on behalf of plaintiff and counter-defendant.
Deposed: Jun 9, 2006; May 11, 2007
Trial Testimony: Aug 22, 2007; Aug 23, 2007
Disposition: Settled
Date: March 2006 – August 2007

Expert Engagement:

Type of Matter: Product liability
Law Firm: Lemons, Grundy & Eisenberg, Las Vegas, NV
Case Name: Linda Wissenback v. BMW of North America, LLC, et al.
[No. A474540, District Court, Clark County, Nevada]
Services Provided: Engaged as expert in case related to failure of sound system, on behalf of plaintiff.
Deposed: Nov 20, 2006
Disposition: Settled
Date: September 2006 – April 2007

Expert Engagement:

Type of Matter: Product liability, negligence
Law Firm: Law Offices of Robert Goldberg, Roswell, GA
Case Name: Tara Lena Cameron v. Apria Healthcare, Inc., Respironics, Oxyplus
[No. 2005CV101016, Superior Court of Georgia, Fulton County]
Services Provided: Engaged as expert in case related to alleged failure of infant apnea monitor on behalf of plaintiff.
Disposition: Settled
Date: March 2006 – November 2006



Expert Engagement:

Type of Matter: Patent infringement
Law Firm: Sheppard Mullin Richter & Hampton, Los Angeles, CA
Case Name: Beckman Coulter, Inc. v. Applera Corp.
[No. SA CV 02-624, Central District of California, Southern Div.]
Services Provided: Engaged as expert in patent infringement related to biotechnology instrument design; on behalf of plaintiff. Technology involves temperature control
Deposed: Jun 8, 2005
Disposition: Settled
Date: June 2004 – April 2006

Expert Engagement:

Type of Matter: Opposition regarding European patent validity
Law Firm: Vossius & Partner, Munich, Germany
Case Name: Opposition to EP 763349 B1 (Exergen Corp.) by S.A.A.T. Ltd
Services Provided: Engaged as expert in case related to patent involving infrared medical thermometry, on behalf of opponent.
Disposition: Patent not amended
Date: October 2004 – March 2006

Expert Engagement:

Type of Matter: Patent infringement
Law Firm: Knobbe Martens Olson & Bear, Irvine, CA
Case Name: Nellcor / Tyco Healthcare v. Masimo
Services Provided: Engaged as expert in patent infringement related to medical instrument design; on behalf of defendant. Technology involves pulse oximetry
Disposition: Settled
Date: September 2005 – January 2006

Expert Engagement:

Type of Matter: Patent infringement
Law Firm: McDermott, Will & Emery, San Diego, CA
Case Name: Medtronic Minimed, Inc. v. Smiths Medical MD, Inc.
[No. 03-776, District of Delaware]
Services Provided: Engaged as expert in patent infringement related to medical infusion instrument design, on behalf of counter-defendant.
Deposed: Jan 26, 2005
Disposition: Settled
Date: October 2004 – July 2005



Expert Engagement:

Type of Matter: Patent infringement
Law Firm: Knobbe Martens Olson & Bear, Irvine, CA
Case Name: Exergen Corp. v. S.A.A.T., Ltd, Wal-Mart, et al
[No. 01-CV-11306, District of Massachusetts]
Services Provided: Engaged as expert in patent infringement related to medical infrared thermometer design; on behalf of defendant.
Trial Testimony: Jul 1, 2005; Jul 5, 2005; Jul 6, 2005
Disposition: Jury verdict in favor of plaintiff subsequently overturned by court
Date: November 2002 – July 2005

Expert Engagement:

Type of Matter: Product liability
Law Firm: Law Offices of Kenneth R. Ivory, P.C.; Sandy, UT
Case Name: Hatch v. Disetronic
Services Provided: Engaged as expert in case related to failure of external insulin infusion pump, on behalf of plaintiff
Disposition: Settled
Date: May 2005

Expert Engagement:

Type of Matter: Misappropriation of trade secrets, breach of contract, Section 730 expert
Law Firm: Rutan & Tucker LLP, Costa Mesa, CA
Cohen Sakaguchi & English LLP, Irvine, CA
Case Name: Star Envirotech, Inc v. Kenneth A. Pieroni, Redline Detection LLC, et al
[No. 05 CC 01870, Superior Court of California, County of Orange]
Services Provided: Engaged as expert in case related to control of heating elements of automotive leak testing device.
Disposition: Settled
Date: February 2005 – March 2005

Expert Engagement:

Type of Matter: Product liability
Law Firm: Osborne and Harris, Paducah, KY
Case Name: Conwell v. Medtronic
Services Provided: Engaged as expert in case related to implanted medical infusion pump; on behalf of plaintiff.
Disposition: Settled
Date: February 2004 – March 2004



Expert Engagement:

Type of Matter: Patent infringement
Law Firm: Knobbe Martens Olson & Bear; Irvine, CA
Case Name: Nellcor / Tyco Healthcare v. Masimo
[No. CV 00-6506, Central District of California, Western Div.]
Services Provided: Engaged as expert in patent infringement related to medical instrument design;
on behalf of Masimo as counterclaimant. Technology involves pulse oximetry
Trial Testimony: Feb 24, 2004; Feb 25, 2004; Mar 9, 2004;
Mar 16, 2004; Mar 25, 2004
Disposition: Jury verdict in favor of Masimo
Date: May 2002 – March 2004

Expert Engagement:

Type of Matter: Product liability
Law Firm: Wingert Grebing Brubaker & Ryan, San Diego, CA
Case Name: Svenerik Eklund, et al v. Baxter Healthcare Corp, Scripps Health, et al
[No. GIC796806, Superior Court of CA, County of San Diego)
Services Provided: Engaged as expert in case related to infusion pump for patient-controlled
analgesia; on behalf of plaintiff.
Disposition: Case transferred to different law firm
Date: August 2003 – December 2003

Expert Engagement:

Type of Matter: Product liability
Law Firm: Thomas J. Massey, Fallbrook, CA
Case Name: Dickinson v. Active-Ear, Fox Hearing Aid, et al.
[No. GIN015787, Superior Court of CA, County of San Diego, North Div]
Services Provided: Engaged as expert in case related to failure of hearing aid and improper
instruction to hearing aid user on behalf of plaintiff.
Deposed: Aug 21, 2002
Disposition: Settled
Date: January 2002 – December 2002

Expert Engagement:

Type of Matter: Criminal sentencing
Law Firm: Dawnella Gilzean, Public Defender, San Diego, CA
Case Name: People of California v. Calvin Lamont Parker
[No. SCD154640, Superior Court of CA, County of San Diego, Central Div]
Services Provided: Engaged as expert in case related to sound isolation at crime scene and possible
ear-witness to murder on behalf of defendant.
Trial Testimony: Jul 1, 2002
Disposition: Jury verdict in favor of the People
Date: December 2001 – July 2002



Expert Engagement:

Type of Matter: Misappropriation of trade secrets
Law Firm: McDermott, Will & Emery; Irvine, CA
Case Name: Bird Products Corp v. Pulmonetic Systems, Inc., et al
Services Provided: Engaged as expert in case related to medical instrument development; on behalf of plaintiff. Technology involves ventilation support equipment.
Disposition: Settled
Date: October 2001 – April 2002

Expert Engagement:

Type of Matter: Product liability
Law Firm: Downey, Brand, Seymour & Rohwer; Sacramento, CA
Case Name: Humphrey v. SIMMS Level1, Inc., et al
Services Provided: Engaged as expert in case related to misuse and failure of pump and fluid warmer during surgery, on behalf of plaintiff.
Disposition: Settled
Date: September 2001 – October 2001

Expert Engagement:

Type of Matter: Product liability
Law Firm: Martin Roy Robles and Associates; South Pasadena, CA
Case Name: Leraas v. Demeter and Ellman Intl Corp, et al
Services Provided: Engaged as expert in case related to failure of radiosurgical instrument, on behalf of plaintiff.
Disposition: Settled
Date: July 2000 – December 2000

Expert Engagement:

Type of Matter: Product liability
Law Firm: Bullivant Houser Bailey Pendergrass & Hoffman; Portland, OR
Case Name: Scroggins v. McGaw, et. al.
Services Provided: Engaged as expert in case related to misuse and failure of hospital infusion pump, on behalf of defendant
Disposition: Settled
Date: July 1998 – August 1998



Jack Goldberg | Research and Development Projects

From: January 2008
To: Present
Organization: Jain Irrigation, Inc., Fresno, CA
Summary: Research and prototype development: communication and control system to improve efficiency and flexibility irrigation systems.

From: March 1995
To: Present
Organization: Etymotic Research, Elk Grove Village, CA
Summary: Product development and consulting: sound and noise measurement systems; communication system for hard of hearing; apparatus to assist in fitting hearing aids.

From: September 2014
To: December 2014
Organization: San Diego Home Inspection
Summary: Consultation toward development of apparatus and method to aid in the non-invasive discovery of unreliable plumbing in homes and associated intellectual property strategy.

From: May 2014
To: August 2014
Organization: K&L Gates LLP
Summary: Consultation regarding potential intellectual property licensing dispute in relation to medical instrumentation for dialysis

From: October 2004
To: December 2012
Organization: Hearing Enhancement Group, LLC, Thousand Oaks, CA
Summary: Product development and consulting regarding acoustics, headset design and listening devices.

From: February 2007
To: February 2010
Organization: Med-e-Cell, San Diego, CA
Summary: Research and prototype development: solar-powered system for mosquito abatement.

From: June 2008
To: August 2008
Organization: Moriah Partners, LLC, Long Beach, CA
Summary: Technology due diligence regarding acquisition of medical device company.



From: April 2004
To: October 2004
Organization: Coradiant Canada, Inc., Montreal, Quebec
Summary: Product development, consulting and prototype production: custom printed circuit board for LAN/power/communications interconnect.

From: June 2003
To: November 2003
Organization: Misonix
Summary: Consultation regarding validation test station for controller board of system for soft tissue aspiration and emulsification.

From: November 2002
To: January 2003
Organization: IntellectExchange
Summary: Product design review and consulting for developer of esophageal ablation apparatus.

From: September 2000
To: December 2002
Organization: Calypso Medical, Seattle, WA
Summary: Product research and development, manufacturing process development: system which aids surgeon, including miniature human implantable devices and extensive signal processing. Technology involves electromagnetic sensing.

From: April 2002
To: December 2002
Organization: Curt Mixon and Associates
Summary: Product development and consulting: motor control subsystem for laser focus as part of eye surgery system.

From: December 2001
To: June 2002
Organization: Advanced Pollution Instrumentation, Teledyne Instruments, San Diego, CA
Summary: Product development: enhancement of device for the measurement of ozone in gas samples.

From: May 1999
To: December 2000
Organization: Progeny Systems, LLC, San Diego, CA
Summary: Product development and consulting: system for the analysis of farm animal biomaterials. Technology involves optical transmission and signal processing.



From: January 1999
To: November 1999
Organization: Poco Power Corporation, San Luis Obispo, CA
Summary: Product development and consulting regarding acoustics, headset design and listening devices.

From: May 1997
To: March 1999
Organization: nCom Systems, San Diego, CA
Summary: Database design effort in support of thick film integrated circuit manufacturing process.

From: September 1996
To: October 1996
Organization: Akos Biomedical, Inc., San Diego, CA
Summary: Consultation regarding FDA document submittal. Technology involves endoscopic surgery.

Jack Goldberg | Professional Affiliations, Achievements & Awards

- Senior Member, Institute of Electrical and Electronics Engineers
 - *Medicine and Biology, Signal Processing*
- Member, Acoustical Society of America
- Organizing Committee Member, MIT Enterprise Forum, 1986 – 1991
- Amateur Radio Extra Class license holder: W6JZ
- Modest Russian Language skills

Jack Goldberg | Publications & Presentations

- 2006 American Board of Trial Advocates, Orange County, CA
Masters in Trial (Expert presentation at mock trial)
- 2006 American Auditory Society Annual Meeting
An inexpensive noise dosimeter
- 2001 141st Meeting, Acoustical Society of America
A new handheld meter for measuring the occlusion effect produced by, and leakage around, earmolds
- 1997 134th Meeting, Acoustical Society of America
Analog and Digital Signal Processing in a High Performance Miniature Sound Level Meter
- 1993 13th Annual Northeast Symposium on Health Care Technology
Infrared Thermometry



Jack Goldberg | U.S. Patents

<u>Patent</u>	<u>Date Issued</u>	<u>Description</u>
Application	14/124,032	Motion Control system and method with energy harvesting
8,322,222	2012	Method and system for noise dosimeter with Quick-Check mode and earphone adapter
8,270,658	2012	Position sensing apparatus and method for active headworn devices
7,913,565	2011	Method and system for predicting long-term exposure to a hazardous environment
7,903,833	2011	Headworn listening device and method
7,882,743	2011	Method and system for noise dosimeter
7,836,770	2010	Method and system for noise dosimeter with Quick-Check mode and earphone adapter
7,535,363	2009	Miniature resonating marker assembly
7,135,978	2006	Miniature resonating marker assembly
6,098,463	2000	Method and apparatus for measurement of wide dynamic range signals
5,966,639	1999	System and Method for Enhancing Speech Intelligibility Utilizing Wireless Communication
5,455,565	1995	Fluid Monitor System and Method Using a Resonator
5,260,665	1993	In-Line Fluid Monitor System and Method
5,150,969	1992	System and Method for Temperature Determination and Calibration
4,938,079	1990	Thermal Transit Time Flow Measurement System

References and further detail regarding litigation support are available upon request.